

# Mini-IQ

## Mini-Controller & Reader

Supplemental selection,  
installation, and  
configuration guidance

# About the Contents

This supplemental contains information to assist the installer in the selection, installation, configuration and maintenance to the Proxess Mini-IQ (mini-controller & reader pair).

The first four (4) pages is the Mini-IQ data sheet from the Proxess website's "Support & Data Sheets" tab.

The following page is a screenshot of the "Design Guide" tab on the Proxess website and shows a comprehensive selection guidance table, between LoxIQ™ (our phone-based access control solution) and ProxessIQ™ (our online, enterprise-class, PC-based access control system).

The next page is a screenshot of the "Support & Data Sheets" tab on the Proxess website and shows the icon to click on to open the LoxIQ™ software user manual.

The next page is the wiring diagram for the Mini-IQ.

The final group of drawings are sample door device and wiring diagrams for some of the typical doors the Mini-IQ will secure:

- Typical storefront door with a mechanical flip-bolt
  - Including retrofit/upgrade guidance
- Perimeter panic-bar door
- Vehicle gate operator

For further info contact Proxess Support to schedule training.

# Data Sheet Location: Mini-IQ

m/Support-Data-Sheets



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SUPPORT & DATA SHEETS

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## SUPPORT & DATA SHEETS

HOME / SUPPORT & DATA SHEETS

### DATA SHEETS & MARKETING MATERIALS



NX™ Smart  
Credentials



Controllers and  
Bridges



Proxess Mini-IQ



RaxIQ™



Proxess Sync™



ENR™

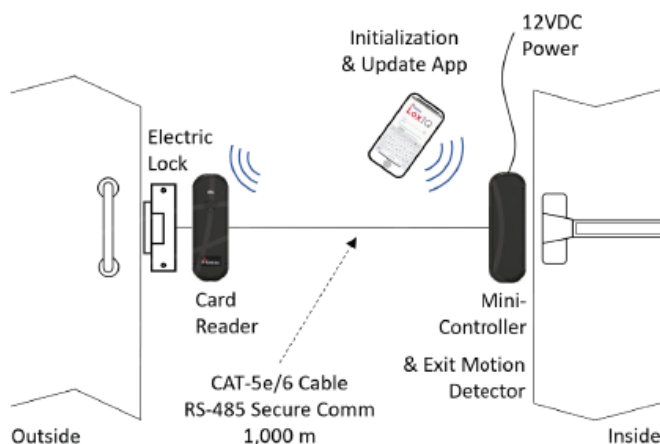
### VIDEO TUTORIALS

# Proxess Mini-IQ

## PX Series Mini-Controller

Bluetooth™, On-Demand  
Edge Controller

PROXESS  
Mini-IQ



The *Proxess Mini-IQ* is the simplest and most cost-effective door controller to install and operate, and rounds out the Proxess product line, supporting applications at every door type;

Storefronts, panic exits, vehicle parking gates, pedestrian gates, mortise, cylindrical and more. Only low voltage power is needed, so the only wiring you'll need at the door is to connect the Proxess high security card/mobile phone readers and an electric strike (mag, lock, etc.). Proxess' industry-first, built-in, request-to-exit motion detector option ensures Proxess is providing the lowest cost product to secure a door and an unlimited number of credentials can be supported by each Proxess Mini-IQ edge controller.

Built to our "less training required" standard, a simple click of the Sync button from the mobile phone app (in both Lox-IQ™ & ProxessIQ™) configures each Proxess Mini-IQ.

When more stringent security is required, an exit reader can also be connected.

An unlimited number of Proxess Mini-IQs can be added to your system, so you won't outgrow your investment.

Security is paramount and Proxess delivers with encrypted mobile phones and our *Network-on-Card* technology. This greatly reduces the cost of access point design, equipment prices and installation. All this technology keeps your cost low and your security high.

To that end, the Proxess Mini-IQ keeps the controller electronics securely on the inside, preventing network and lock relay tampering. Proxess also has an option for an integrated *Request-to-Exit* motion detector, further lowering the material and installation cost and complexity. For ordering simplicity, the Proxess Mini-IQ includes both mullion and single-gang adapter plates.

Further, in ProxessIQ™ systems, adding a Bluetooth™ bridge will bring all the mini-controllers within range online.



[proxess.com](http://proxess.com)

# FEATURES

<b>SIMPLICITY</b>	<i>One-Click</i> to add a card. <i>One-click</i> to add a door. <i>One-click</i> to initialize each. Doors can be added, moved and configured in the software in seconds, even from remote locations.
<b>NETWORK-ON-CARD</b>	Proxess credentials go beyond just passing a number to the reader. They know where they belong and perform a handshake with the readers for ultimate security.
<b>EXPANSION</b>	Unlimited mini-controllers can be added to a Proxess system. Unlimited users and credentials can gain entry and exit through a Mini-IQ.
<b>ENCRYPTION</b>	Upstream and downstream communications utilize AES 256-bit encryption.
<b>DATABASE-ON-PHONE</b>	The Proxess Mini-IQ works with <i>Lox/Q™</i> , our phone-based database, cloud backup, multiple-phone operational redundancy.
<b>COMPATIBILITY</b>	Proxess Mini-IQ controllers are compatible with our multi-technology (Mifare DESFire EV 1, 2, or 3 & BLE), secure RS-485 readers and Proxess bridges provide migration to ProxessIQ™ enterprise software as your needs grow.
<b>ONE DOOR, TWO READERS</b>	Standard configuration for a single door with both an entry & exit reader, providing exit control for forensic people counting; area loading analysis and contact tracing.
<b>EASY INSTALLATION</b>	With only local power required, an optional built-in PIR REX and no IT overhead, the Proxess Mini-IQ provides the simplest access control installation for emergency/panic exits.
<b>EVENT REPORTING</b>	Credential transactions and door events never linger as mobile credentials and bridges route them to the software.

## ADDITIONAL FEATURES

✓	Simplest access control installation. Configuration with a click in the management app.	✓	Highest level security cards using Mifare DESFire EV 1, 2, or 3 and BLE Mobile Credentials
✓	Most cost-effective door control installation. All device connections located at the door.	✓	<i>Network-on-Card</i> credentials & mobile app collect transactions from Proxess Mini-IQ
✓	Built-in request-to-exit motion detector option reduces equipment and labor costs	✓	Future RS-485 communication with Proxess locksets and downstream sub-controllers
✓	For all door types: emergency egress, pedestrian gates, vehicle gates...	✓	Unlimited users per door and doors per system
✓	Connect both (separately purchased) Entry and Exit card readers for 2-way control	✓	With ProxessIQ only, bring mini-controllers online with Bluetooth bridges

# SYSTEM SPECIFICATIONS

## HOW TO ORDER:

PX-ST Mini-Controller with Pigtail & Enclosure  
 PX-REX Mini-Controller with Pigtail, Enclosure & REX  
 Both Mullion & Single-Gang Backplates Included  
 Requires RX-MU2 Card Reader



## ELECTRICAL

Line Voltage Input	12VDC
Current Consumption	100mA Typical, 3A Max
Output Voltage	12VDC
Output Current	2A (Relay Limited and Power Supply Dependent)
Alternate Output Voltage	3VDC
Alternate Output Current	500mA
Power Output (AF-AT Type 1)	10.3W

## COMMUNICATIONS

Reader Communication	2-wire, RS-485, Bi-Directional, 230Kbps
Backhaul	Bluetooth Low Energy

## SYSTEM SPECIFICATIONS

Cardholders	Unlimited
Mini-Controllers per System	Unlimited
Time Zones - LoxIQ	Limited
Time Zones - ProxessIQ	Unlimited
Data Retention	30 Days, Flash Storage
Door Open Time	0-255 Seconds

## FEATURES

Reader Ports	2
Input for Request-to-Exit	Yes
Input for Door Contact	Yes
In/Out Reader Configuration	Yes

## HARDWARE

Housing	ABS Plastic
Backplates	Powdercoated Metal
Weight with Mullion plate	148g
Weight with Single-Gang Plate	200g
Weight as Shipped in Box	345g
Mullion Mounting Backplate ▼	
Height	4.93" (125mm)
Width	1.77" (45mm)
Depth	1.05" (27mm)
Single-Gang Backplate ▼	
Height	5.25" (134mm)
Width	2.75" (70mm)
Depth	1.05" (27mm)

## WIRING

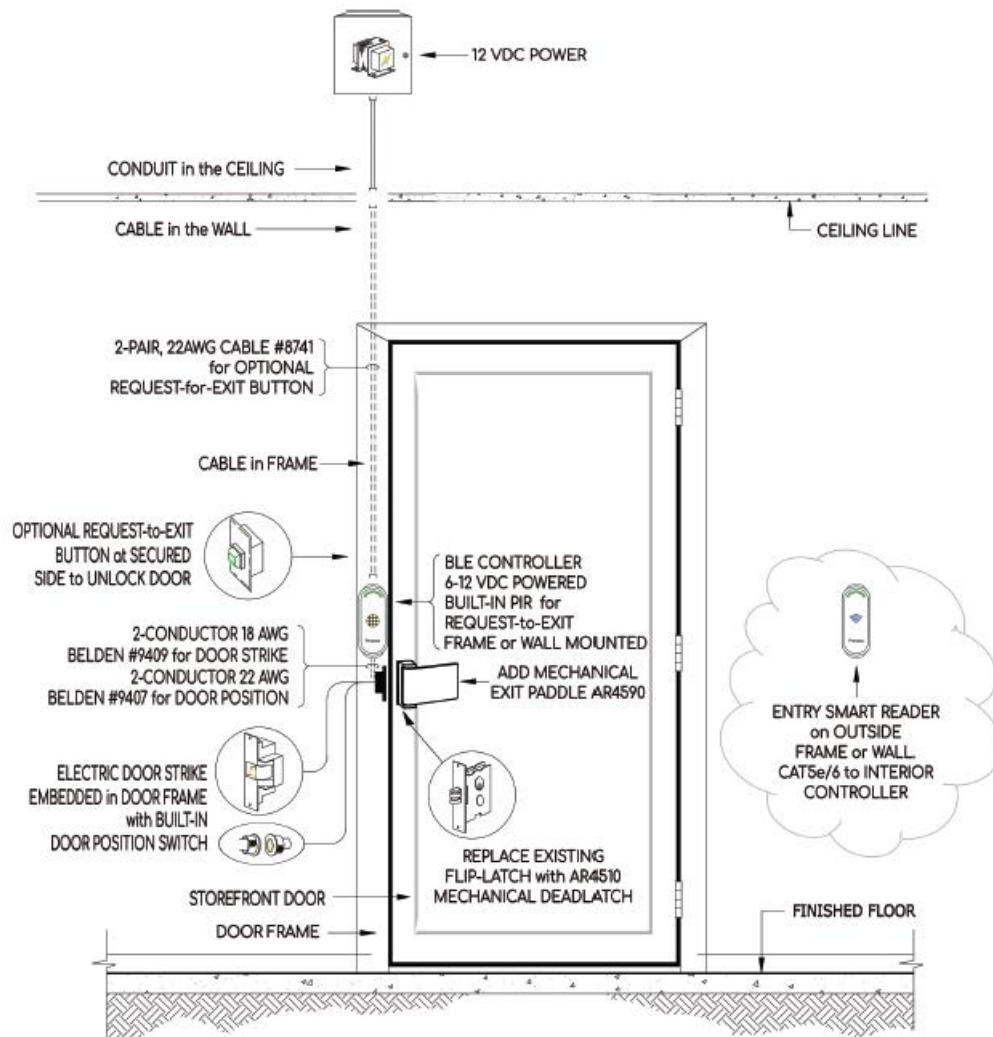
Power Cable Type	2C, 18AWG
Reader Cable Type	CAT-6
REX Cable Type	4C, 22AWG, OS
Door Contact Cable Type	2C, 22AWG, OS
Lock Release Cable Type	2C, 18AWG, OS
RS-485 Cable Output Type	4C, 22AWG, OS

## ENVIRONMENT

Operating Temperature PX-ST	-40C to 85C; -40F to 185F
Operating Temperature PX-REX	-20C to 60C; -4F to 140F



# SAMPLE DOOR DEVICE LAYOUT AND CONNECTIVITY



- Proxess has a library of door drawings. Contact Proxess for specific door drawings required for your design project.
- Contact Proxess if dealer requires help in sourcing auxiliary hardware products for Mini-Controller doors such as panic devices, electric strikes, magnetic locks or narrow-rail, storefront door locks & exit handles/paddles.

# LoxIQ™ vs ProxessIQ™ Matrix

ess.com/Design-Guide

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## FEATURE/FUNCTION



ACS & Database on	Phone(s)	Computer
Backup	Cloud	IT Selected Location
Make Database Changes	Phones	Computers
Clients/Administration	Unlimited Phones	Unlimited PCs
Lockset Connectivity	Wire-free, Network-on-Phone	Online Wireless, Wirefree and/or Network-on-Phone
Mini-Controller Connectivity	Wire-free, Network-on-Phone	Online Wireless, Wirefree and/or Network-on-Phone
Bridges/Gateways/Hubs	No	Yes
Audits to Software	Present Management App to Door	Present Management App to Door Present Card to Enrollment Reader Use Card at Checkpoint Reader
Emergency Key Over-ride Tracking	Yes	Yes
Mobile Credential Audits to Software	Real-time	Real-time
Mobile Credential Rights Changes	Real-time	Real-time
Mobile Credential Online & Offline Operation	Yes	Yes
Lockdown from the Locksets	Yes	Yes
Lockdown from Mobile Credential	Yes	Yes
Lockdown from Software	No	Yes
Open Door Remotely from Software	No (Alternative: Give temporary Mobile Credential)	Yes
Email Notifications	No	Yes
Custom Time Schedules	2	Unlimited
Doors per System	Unlimited	Unlimited
Credentials per System	Unlimited	Unlimited
No-Touring to Doors to add Cards	No-Touring Required (Network-on-Card/Phone)	No-Touring Required (due to Network-on-Card)
Door Unlock Schedules	No	Unlimited



# Operations Manual Location: LoxIQ™

m/Support-Data-Sheets



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ProxessIQ™ Software & Proxess Sync™ Mobile App Configuration

10-04-19

## SUPPORT DOCUMENTS



MX Series Mortise  
Installation Guide  
(Prezi Version)



Controllers &  
Bridges Service  
Manual



LoxIQ™ User  
Guide (Android)



LoxIQ™ User  
Guide (iOS/Apple)  
(Prezi Version)

## DOWNLOADS



Diagram illustrating the wiring and components for the ADAMS RITE 6480 panic bar assembly.

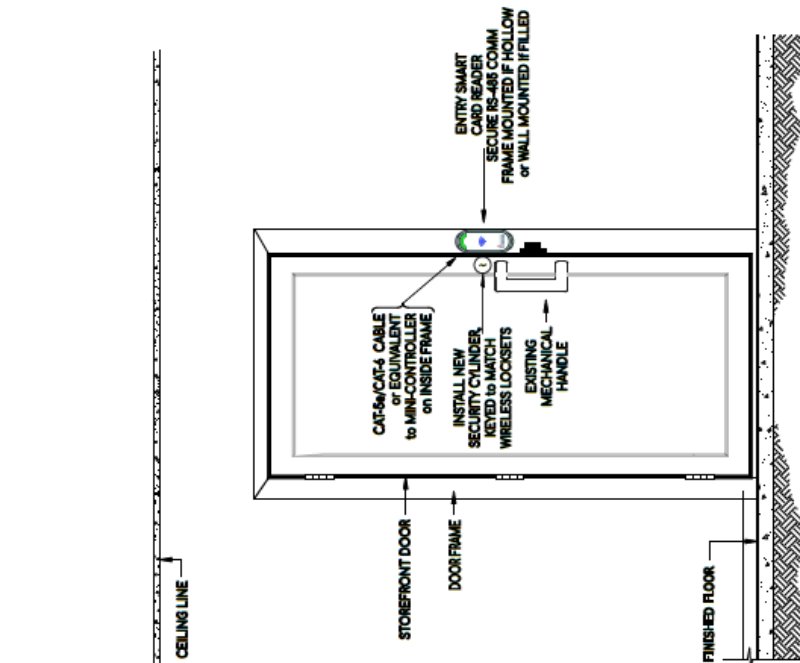
**Wiring and Components:**

- 12 VDC POWER:** Connected to the assembly via a power source.
- CONDUIT in the CEILING:** Path for the power cable.
- CABLE in the WALL, IF HOLLOW / On the WALL, IF CONCRETE:** Path for the power cable.
- 2-CONDUCTOR, 22 AWG CABLE to MINI-CONTROLLER for POWER:** Connects the power source to the mini-controller.
- CABLE in the FRAME IF HOLLOW / On the FRAME IF FILLED:** Path for the door strike and latch position sensor cables.
- 2-CONDUCTOR, 18 AWG for DOOR STRIKE for LATCH POSITION:** Connects the door strike to the latch position sensor.
- 2-CONDUCTOR, 22 AWG for LATCH POSITION:** Connects the latch position sensor to the mini-controller.
- ELECTRIC DOOR STRIKE EMBEDDED in DOOR FRAME:** The door strike is installed in the door frame.
- LATCH POSITION SENSOR AR 780 SERIES or EQUIVALENT USE AR 4494R1E or EQUIVALENT:** The latch position sensor is installed in the door frame.
- OPTIONAL BUIL-IN FOR REQUEST-TO-EXIT FRAME or WALL MOUNTED:** The assembly can be mounted on a wall or frame.
- ADD MECHANICAL EXIT RIDDLE ADAMS RITE AR 4690 or EQUIVALENT:** A mechanical exit riddle is added to the assembly.
- REPLACE EXISTING AN MS1850 SERIES FLIP-BOLT with AN 4630/30 MECHANICAL DEADLATCH or EQUIVALENT:** The existing flip-bolt is replaced with a mechanical deadlatch.
- STOREROOM DOOR DOOR FRAME:** The assembly is installed on a storeroom door.
- CEILING LINE:** The ceiling line is indicated.
- FINISHED FLOOR:** The finished floor is indicated.

**Optional for Higher Security:**

- CHANGE TO MECHANICAL PANIC BAR
- ADAMS RITE 6480 or EQUIVALENT
- ALSO CHANGE TO AR 4490 DEADLATCH

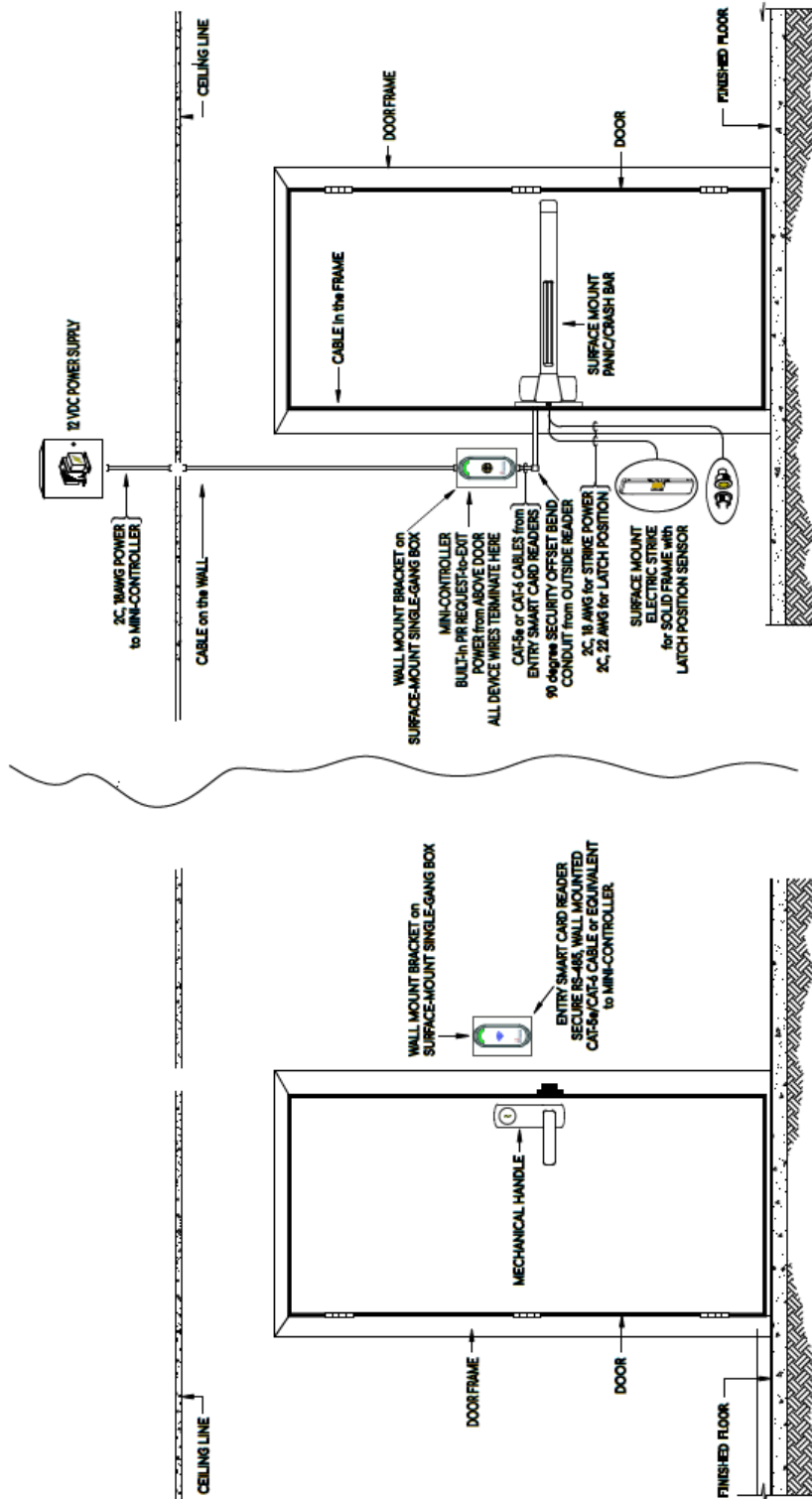
Q3-02 INTERIOR VIEW - STOREFRONT EXIT ELECTRIC STRIKE & PADDLE or BAR with MINI-CONTROLLER



**EXTERIOR VIEW - STOREFRONT ENTRY SMART CARD READER & MINI-CONTROLLER**

		<b>PROGRESS FOR</b> <small>PROGRESS FOR is a registered trademark of Proress Inc. All rights reserved. © 2014 Proress Inc. All rights reserved.</small>		<b>CONTRACT TITLE</b> <b>STOREFRONT ENTRY READER</b> <b>MINI-CONTROLLER with ELECTRIC STRIKE</b> <b>and MECHANICAL EXIT PADDLE or BAR</b>		<b>CONTRACT NO.</b> TRANSFER NO. <b>D</b> SERIAL NO. <b>NONE</b> <b>SHEET 1 OF 13</b>	
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02	03-14-23	BS	BS	DESIGNED BY	03-14-23	BS	BS
03	03-14-23	BS	BS	APPROVED BY	03-14-23	BS	BS
04	03-14-23	BS	BS	DATE	03-14-23	BS	BS

# Door Typical – Panic-Exit



CR-02  
REV. 04  
11/16

CR-01  
REV. 04  
11/16

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**CONTROLLER DOOR CONFIGURATION**  
**DETAIL - A**

**CONTRACT NO.**  
**OWNER NO.**  
**PROJECT NO.**  
**DATE**  
**BY**  
**APPV.**

**CONTRACT TITLE**  
**TYPICAL ENTRY-EXIT READER**  
**CONTROLLER DOOR CONFIGURATION**  
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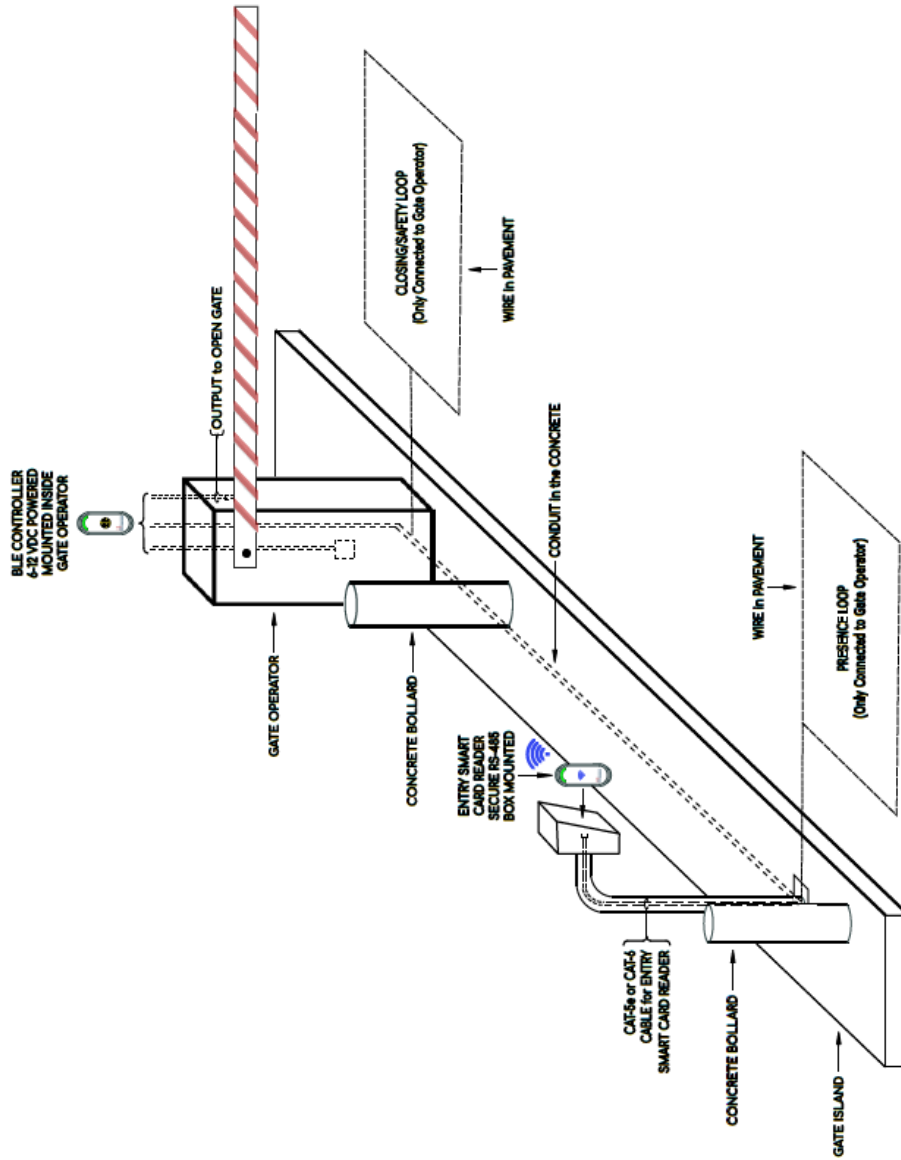
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**CONTROLLER DOOR CONFIGURATION**  
**DETAIL - A**

# Door Typical – Vehicle Gate



OR-01 TYPICAL VEHICLE GATE CARD READER & CONTROLLER

DRAWING TITLE					CONTRACT NO.:	
TYPICAL BARRIER GATE MINI-CONTROLLER & ENTRY CARD READER					DRAWING NO.:	
					REV.:	
					SHEET _ of _ 13	
REVISIONS					NOTES	
NO.	DATE	BY	APP'D	DESCRIPTION	REVISIONS	
1	01-14-22	RS	RS	ISSUED FOR CONSTRUCTION		
2	01-13-18	RS	RS	ISSUED FOR CONSTRUCTION		
3	01-14-22	RS	RS	ISSUED FOR CONSTRUCTION		
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